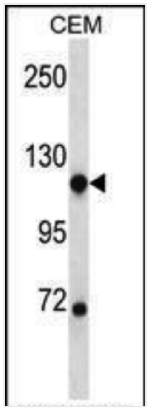
NDST1 Antibody – Rabbit Polyclonal

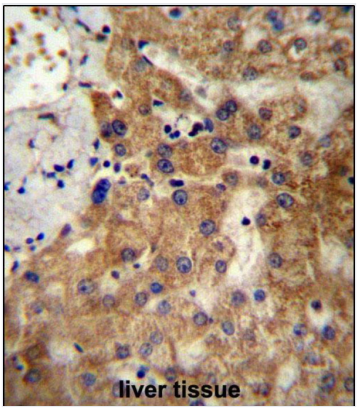
PRODUCT OVERVIEW

Product Name	NDST1, Polyclonal Antibody
Full Product Name	NDST1, CT (NDST1, HSST, HSST1, Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 1, Glucosaminyl N-deacetylase/N-sulfotransferase 1, N-heparan sulfate sulfotransferase 1, [Heparan sulfate]-glucosamine N-sulfotransferase 1, Heparan sulfate N-de
Product Gene Name	anti-NDST1 antibody
Product Synonym Names	NDST1; HSST; HSST1; Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 1; Glucosaminyl N-deacetylase/N-sulfotransferase 1; N-heparan sulfate sulfotransferase 1; [Heparan sulfate]-glucosamine N-sulfotransferase 1; Heparan sulfate N-deacetylase 1; Heparan sulfate N-sulfotransferase 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human NDST1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	62,065 Da
OMIM	U18918 mRNA
3D Structure	ModBase 3D Structure for P52848
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 820-849 in the C-terminal region of human NDST1, UniProt Accession #P52848. Species sequence homology: mouse and rat
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-NDST1 antibody	Antibodies; Enzymes; Sulfotransferase
Applications Tested/Suitable for anti-NDST1 antibody	Western Blot (WB), Immunohistochemistry (IHC), FLISA
Application Notes for anti-NDST1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-NDST1 antibody	NDST1 is an essential bifunctional enzyme that catalyzes both the N-deacetylation and the N-sulfation of glucosamine (GlcNAc) of the glycosaminoglycan in heparan sulfate. Modifies the GlcNAc-GlcA dissacharide repeating sugar backbone to make N-sulfated heparosan, a prerequisite substrate for later modifications in heparin biosynthesis. Plays a role in determining the extent and pattern of sulfation of heparan sulfate. Compared to other NDST enzymes, its presence is absolutely required. Participates in biosynthesis of heparan sulfate that can ultimately serve as L-selectin ligands, thereby playing a role in inflammatory response.

Product References and Citations for anti-NDST1 antibody	1. Yoshida, T., et al. Int. J. Mol. Med. 25(4):649-656(2010). 2. Oguri, M., et al. Am. J. Hypertens. 23(1):70-77(2010). 3. Duelli, A., et al. J. Immunol. 183(11):7073-7083(2009). 4. Zuberi, R.I., et al. J. Immunol. 183(6):3971-3979(2009). 5. Drenos, F., et al. Hum. Mol. Genet. 18(12):2305-2316(2009).
Other Notes	Small volumes of anti-NDST1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NDST1 purchase	MBS6324292 is an antibody targeting NDST1. Also known as NDST1, CT (NDST1, HSST, HSST1, Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 1, Glucosaminyl N-deacetylase/N-sulfotransferase 1, N-heparan sulfate sulfotransferase 1, [Heparan sulfate]-glucosamine N-sulfotransferase 1, Heparan sulfate N-de. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-NDST1 antibody
Western Blot analysis in CEM cell line lysates (35ug/lane) usingMBS648643. This demonstrates that MBS648643 detected the NDST1 protein (arrow).



Immunohistochemistry (IHC) of anti-NDST1 antibody
Immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue using MBS648643 followed by peroxidase conjugation of the secondary antibody and DAB staining.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NDST1. It may not necessarily be applicable to this product.

NCBI GI #	4505351
NCBI GeneID	3340
NCBI Accession #	NP_001534.1
UniProt Primary Accession #	P52848
UniProt Secondary Accession #	Q96E57
UniProt Related Accession #	P52848
GenBank Nucleotide #	NM_001543.4
NCBI Official Full Name	bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 1 isoform 1
NCBI Official Synonym Full Names	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 1
NCBI Official Symbol	NDST1
NCBI Official Synonym Symbols	HSST; NST1
UniProt Protein Name	Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 1
UniProt Synonym Protein Names	Glucosaminyl N-deacetylase/N-sulfotransferase 1; NDST-1; N-heparan sulfate sulfotransferase 1; N-HSST 1; [Heparan sulfate]-glucosamine N-sulfotransferase 1; HSNST 1
UniProt Gene Name	NDST1
UniProt Synonym Gene Names	HSST; HSST1; NDST-1; N-HSST 1; HSNST 1

NCBI Protein Information	bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 1; NDST-1; HSNST 1; N-HSST 1; N-heparan sulfate sulfotransferase 1; glucosaminyl N-deacetylase/N-sulfotransferase 1; heparan sulfate-N-deacetylase/N-sulfotransferase; [Heparan sulfate]-glucosam
NCBI Summary for NDST1	This gene encodes a member of the heparan sulfate/heparin GlcNAc N-deacetylase/ N-sulfotransferase family. The encoded enzyme is a type II transmembrane protein that resides in the Golgi apparatus. The encoded protein catalyzes the transfer of sulfate from 3'-phosphoadenosine 5'-phosphosulfate to nitrogen of glucosamine in heparan sulfate. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]
UniProt Comments for NDST1	Essential bifunctional enzyme that catalyzes both the N-deacetylation and the N-sulfation of glucosamine (GlcNAc) of the glycosaminoglycan in heparan sulfate. Modifies the GlcNAc-GlcA disaccharide repeating sugar backbone to make N-sulfated heparosan, a prerequisite substrate for later modifications in heparin biosynthesis (PubMed:10758005, PubMed:12634318). Plays a role in determining the extent and pattern of sulfation of heparan sulfate. Compared to other NDST enzymes, its presence is absolutely required. Participates in biosynthesis of heparan sulfate that can ultimately serve as L-selectin ligands, thereby playing a role in inflammatory response (PubMed:10758005, PubMed:12634318). Required for the exosomal release of SDCBP, CD63 and syndecan (PubMed:22660413).
Research Articles on NDST1	**1.** These findings establish NDST1 as a target of miR-24 and demonstrate how such NDST1 suppression in endothelial cells results in reduced responsiveness to VEGFA
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